Test Report
Consistency test

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Sample Collected Date	Jun/5/2018, Jun/20/2018
Tested Date	16-Jun-2018

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	30.5
3	Weight of Water (gm)	108	114	118	120	122
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	19	16	11	6.5	5.5

Results: Standard Consistency of Cement: 30.50%

Note:

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Test Report
Fineness test

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At site
Material	Cement
Sample No	1
Sample Collected Date	Jun/5/2018, Jun/20/2018
Tested Date	16-Jun-2018

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	4.8	3.5
3	Percentage retained (%)	4.8	3.5
4	Average Percentage retained (%)	4.15	

Results: Residue of cement is: 4.15%

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Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

Note:

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Test Report
Soundness test

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Sample Collected Date	Jun/5/2018, Jun/20/2018
Tested Date	16-Jun-2018

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	16	17	13
3	Difference or expansion	5	7	2
4	Average Differences or Expansion in mm	4.67		

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Results: Difference in Expansion of Cement: 4.67mm

Comments: Maximum allowable Expansion of cement is 10mm.

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Test Report
Gradation test

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Sample Collected Date	Jun/5/2018, Jun/20/2018
Tested Date	16-Jun-2018

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	12	6.00	6.00	94.00	90-100	
3	2.36 mm	19	9.50	15.50	84.50	75-100	
4	1.18 mm	12	6.00	21.50	78.50	55-90	
5	600 µ	44	22.00	43.50	56.50	35-59	
6	300 µ	58	29.00	72.50	27.50	8-30	
7	150 µ	43	21.50	94.00	6.00	0-10	

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Note:

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Test Report
Gradation test

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Sample Collected Date	Jun/5/2018, Jun/20/2018
Tested Date	16-Jun-2018

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	of weight Retained (%)	ive Percentage of	Passing		Remarks
					Test Result	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	492	12.30	12.30	87.70	85-95	
3	19.00	320	8.00	20.30	79.70	68-88	
4	9.50	635	15.88	36.18	63.83	45-65	
5	4.75	420	10.50	46.68	53.33	30-55	
6	0.60	950	23.75	70.43	29.58	8-30	
7	0.15	850	21.25	91.68	8.33	5-15	
8	0.08	250	6.25	97.93	2.08	0-5	

Note:

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Test Report
Impact test

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse aggregates
Sample No	1
Sample Collected Date	Jun/5/2018, Jun/20/2018
Tested Date	14-Jun-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1300	1301
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	340	341
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	79	80
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	261	261
6	Aggregate Impact Value (w4 / w3)x100	%	23.24	23.46
7	Specified Limit	%	45.00	

Note:

Results: Average Aggregate Impact Value: **23.35** %

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M25) for Column
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Sample Collected Date	22-Aug-2018
Tested Date	29-Aug-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	6.89	150*150*150	2041.48	324	0.0225	14.40	14.34	14.59
2	25	7	6.86	150*150*150	2032.59	325	0.0225	14.44		
3	25	7	6.77	150*150*150	2005.93	319	0.0225	14.18		
4	25	7	7.07	150*150*150	2094.81	328	0.0225	14.58	14.83	
5	25	7	6.77	150*150*150	2005.93	335	0.0225	14.89		
6	25	7	6.66	150*150*150	1973.33	338	0.0225	15.02		

Results: 7-days Compressive strength of cement is 14.59 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M25) for Column
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Sample Collected Date	22-Aug-2018
Tested Date	19-Sep-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	25	28	7.94	150*150*150	2352.59	528.00	0.0225	23.47	23.73	23.88
2	25	28	7.85	150*150*150	2325.93	537.00	0.0225	23.87		
3	25	28	7.79	150*150*150	2308.15	537.00	0.0225	23.87		
4	25	28	7.85	150*150*150	2325.93	539.00	0.0225	23.96	24.03	
5	25	28	7.92	150*150*150	2346.67	545.00	0.0225	24.22		
6	25	28	7.86	150*150*150	2328.89	538.00	0.0225	23.91		

Results: 28-days Compressive strength of cement is 23.88 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M25) for Footing
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	1
Sample Collected Date	26-Jul-2018
Tested Date	2-Aug-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	25	7	6.89	150*150*150	2041.48	323	0.0225	14.36	14.33	14.56
2	25	7	6.86	150*150*150	2032.59	325	0.0225	14.44		
3	25	7	6.77	150*150*150	2005.93	319	0.0225	14.18		
4	25	7	7.07	150*150*150	2094.81	325	0.0225	14.44	14.79	
5	25	7	6.77	150*150*150	2005.93	335	0.0225	14.89		
6	25	7	6.66	150*150*150	1973.33	338	0.0225	15.02		

Results: 7-days Compressive strength of cement is 14.56 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M25) for Footing
Contractor	Sri Y B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Sample Collected Date	26-Jul-2018
Tested Date	23-Aug-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	28	7.94	150*150*150	2352.59	524.00	0.0225	23.29	23.67	23.85
2	25	28	7.85	150*150*150	2325.93	537.00	0.0225	23.87		
3	25	28	7.79	150*150*150	2308.15	537.00	0.0225	23.87		
4	25	28	7.85	150*150*150	2325.93	539.00	0.0225	23.96	24.03	
5	25	28	7.92	150*150*150	2346.67	545.00	0.0225	24.22		
6	25	28	7.86	150*150*150	2328.89	538.00	0.0225	23.91		

Results: 28-days Compressive strength of cement is 23.85 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M25) for Plinth
Contractor	Sri Y B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Sample Collected Date	14-Sep-2018
Tested Date	21-Sep-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	6.80	150*150*150	2014.81	333	0.0225	14.80	14.47	14.67
2	25	7	6.88	150*150*150	2038.52	325	0.0225	14.44		
3	25	7	6.75	150*150*150	2000.00	319	0.0225	14.18		
4	25	7	7.09	150*150*150	2100.74	327	0.0225	14.53	14.86	
5	25	7	6.75	150*150*150	2000.00	338	0.0225	15.02		
6	25	7	6.63	150*150*150	1964.44	338	0.0225	15.02		

Results: 7-days Compressive strength of cement is 14.67 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/DBMF/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M25) for Roof Beam & Slab
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORTH, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Sample Collected Date	12-Dec-2018
Tested Date	19-Dec-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	6.84	150*150*150	2026.67	333.00	0.0225	14.80	14.47	14.67
2	25	7	6.89	150*150*150	2041.48	325.00	0.0225	14.44		
3	25	7	6.76	150*150*150	2002.96	319.00	0.0225	14.18		
4	25	7	6.85	150*150*150	2029.63	327.00	0.0225	14.53	14.86	
5	25	7	6.95	150*150*150	2059.26	338.00	0.0225	15.02		
6	25	7	6.65	150*150*150	1970.37	338.00	0.0225	15.02		

Results: 7-days Compressive strength of cement is 14.67 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M25) for Roof Beam & Slab
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Ikay
Material	Concrete
Sample No	1
Sample Collected Date	12-Dec-2018
Tested Date	9-Jan-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	28	7.85	150*150*150	2325.93	526.00	0.0225	23.38	23.72	23.91
2	25	28	7.89	150*150*150	2337.78	540.00	0.0225	24.00		
3	25	28	7.95	150*150*150	2355.56	535.00	0.0225	23.78		
4	25	28	7.92	150*150*150	2346.67	542.00	0.0225	24.09	24.10	
5	25	28	7.85	150*150*150	2325.93	545.00	0.0225	24.22		
6	25	28	7.95	150*150*150	2355.56	540.00	0.0225	24.00		

Results: 28-days Compressive strength of cement is 23.91 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M25) for Sump
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Sample Collected Date	24-Dec-2018
Tested Date	4-Jan-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	6.81	150*150*150	2017.78	333	0.0225	14.80	14.47	14.67
2	25	7	6.82	150*150*150	2020.74	325	0.0225	14.44		
3	25	7	6.73	150*150*150	1994.07	319	0.0225	14.18		
4	25	7	6.92	150*150*150	2050.37	327	0.0225	14.53	14.86	
5	25	7	6.74	150*150*150	1997.04	338	0.0225	15.02		
6	25	7	6.85	150*150*150	2029.63	338	0.0225	15.02		

Results: 7-days Compressive strength of cement is 14.67 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Dhobbighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BEMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Concrete(M.25) for Sump
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Sample Collected Date	24-Dec-2018
Tested Date	25-Jan-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	28	7.91	150*150*150	2343.70	526.00	0.0225	23.38	23.72	23.91
2	25	28	7.83	150*150*150	2320.00	540.00	0.0225	24.00		
3	25	28	7.73	150*150*150	2290.37	535.00	0.0225	23.78		
4	25	28	7.82	150*150*150	2317.04	542.00	0.0225	24.09	24.10	
5	25	28	7.86	150*150*150	2328.89	545.00	0.0225	24.22		
6	25	28	7.91	150*150*150	2343.70	540.00	0.0225	24.00		

Results: 28-days Compressive strength of cement is 23.91 N/mm2

Note:

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Test Report
Brick

Project Name	Constraction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Contractor	Sri.Y.B.Ramesh
Location	Bay
Material	Brick
Sample No	1
Sample Collected Date	27-Dec-2018
Tested Date	10-Jan-2019

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	471	5.9	5.90	
2	468	5.85		
3	475	5.95		

Results: Compressive strength of Brick is 5.90 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

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AE-1
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Test Report
Solid block

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Contractor	Sri.Y.B.Ramesh
Location	Bay
Material	Solid block
Sample No	1
Sample Collected Date	1-Nov-2018
Tested Date	15-Nov-2018

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	473	6.05	6.07	
2	470	6		
3	477	6.15		

Results: Compressive strength of solid block is 6.07 N/mm2

Note:

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Test Report
Steel

Project Name	Construction of Dhobhighat in ward no.01
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-1/2018-19/QR
Mix Type	Steel
Contractor	Sri.Y.B.Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Steel
Sample No	1
Sample Collected Date	26-Jul-2018
Tested Date	9-Aug-2018

Sl. No.	Dia in mm	Weight in Kg/mtr	Average Weight Kg/mtr	Ultimate Load in KN	Ultimate Tensile stress in N/mm^2	Average Ultimate Tensile Stress N/mm^2	Elongation in mm	Bending and Rebending
1	8	0.395	0.4	32.2	640.6	622.7	20	OK
	8	0.398		30.4	604.79			
2	10	0.601	0.6	47.2	600.97	597.15	20	OK
	10	0.593		46.6	593.33			
3	12	0.896	0.88	72.8	643.69	631.32	20	OK
	12	0.872		70	618.94			
4	16	1.598	1.6	118.5	589.37	595.59	20	OK
	16	1.605		121	601.8			

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